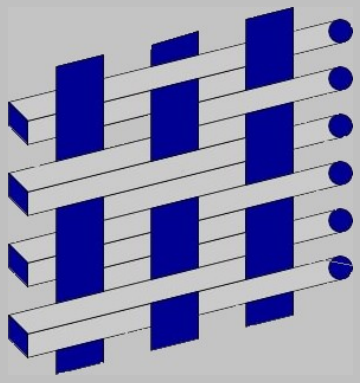


BCS3

Battle
Command
Sustainment
Support
System

System Description

- BCS3 is the Army's maneuver sustainment C2 system!

- It aligns sustainment, in-transit, and force data to aid commanders in making critical decisions in a Logistics Common Operating Picture (LCOP).

- BCS3 provides:

- **Map-centric display through a technical and visual picture of the battlefield**
- **Ability to plan, rehearse, train and execute on one system;**
- **System software that can operate on unclassified or classified networks.**

- BCS3 represents a major step forward in acquisition innovation, coupling spiral development with active participation of the end-user in an iterative design.

-It is the precision tool for logistics planning and execution for Warfighters, essential to achieving victory on the battlefield of today and tomorrow.

System Mission

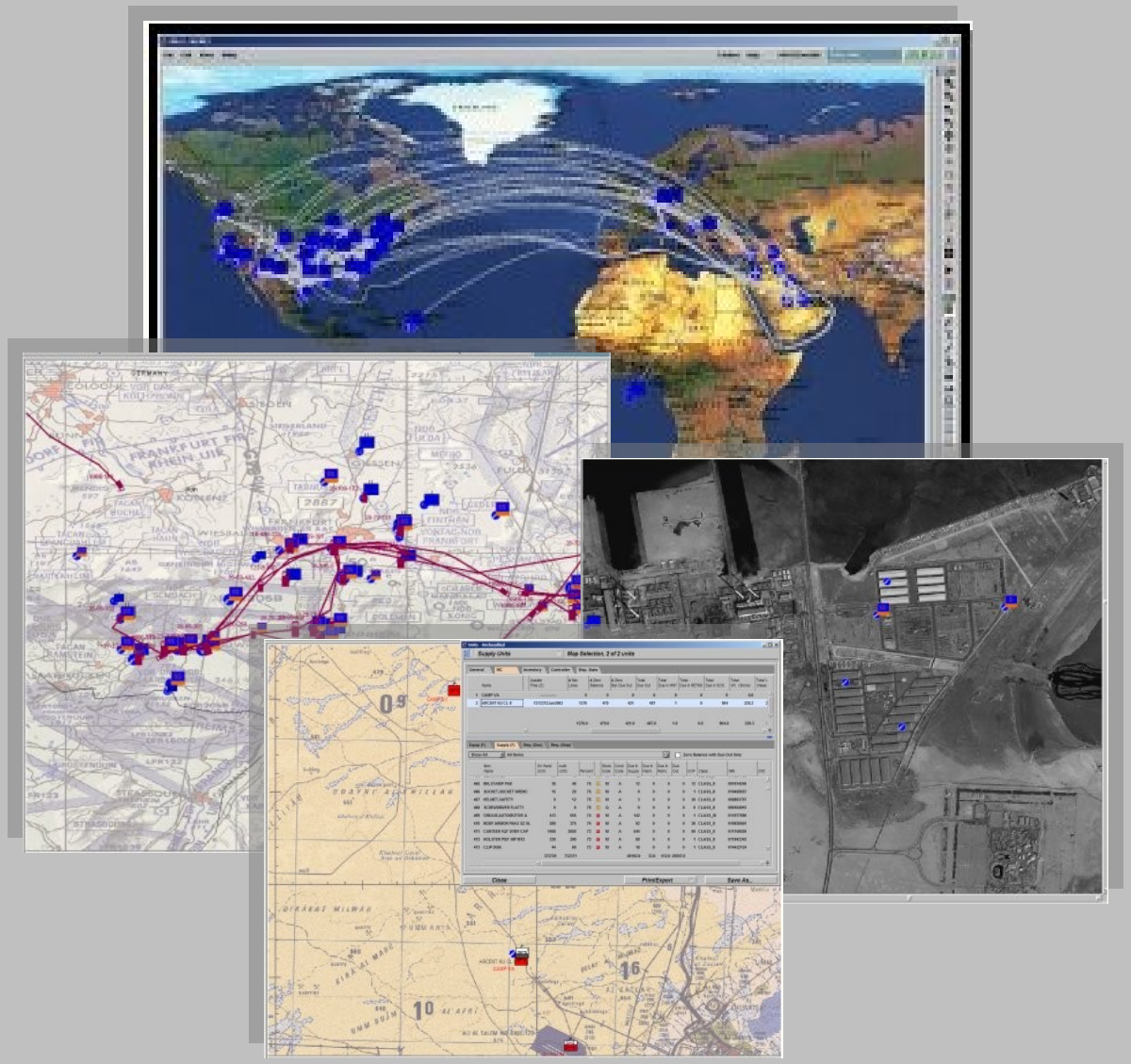
- **BCS3 fuses sustainment information like COA development, in-transit visibility and Combat Power to aid commanders in making informed decisions rapidly and effectively to support today's fight and tomorrow's follow-on actions.**

- **BCS3 provides the logistics portion of Combat Power by displaying current status and future projections of fuel, ammunition, critical weapons systems and personnel.**

- **By design, it can be fielded at every MEF level and will support predictive logistics based on the impact of dues-in and the status of combat essential items such as fuel, ammunition, weapons systems and personnel.**

- **Ultimately it allows the commander to answer the following questions:**
  - **"Can I logistically support this course of action?"**
  - **"Where are my parts?" and**
  - **"What can I put into the fight and when?"**

BCS3 Functionality



- Map Based Views
- TPFDD Analysis
- Deployment Rehearsals
- ITV Tracking
- Supply Point Visibility
- Intelligent Agents
- March Credits
- Web Applications
  - TRANSLOG WEB APP
  - Combat Power
  - Future Combat Power
  - LOGSTAT

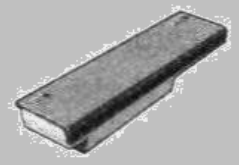
BCS3 System Requirements

- **BCS3 can operate in a stand-alone or network environment**
- **Windows 2000 Pro with MS Office 2000 Pro**
- **Laptop/ Desktop Configuration:**
  a. **1.7 GHZ Pentium M or Higher Processor.**
  b. **2 GB RAM.**
  c. **Network Adapter – 10/100 Ethernet Network Interface Card.**
  d. **80 GB Hard Drive**
  e. **ATI Mobility Radeon 9000 or better graphics card**
  f. **DVD-Rom**
- **Typically: BCS3 can act as a server/gateway for multiple workstations or a stand alone work station.**
- **LAN & WAN Environment, with continuous live feed through internet connection.**

This is BCS3

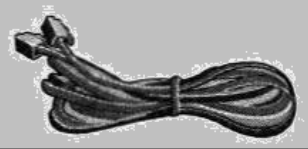
AC Adapter

AC Cord

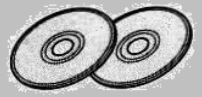


Battery Pack

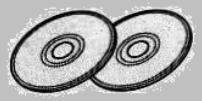
(Laptop)



Modem Telephone Cable

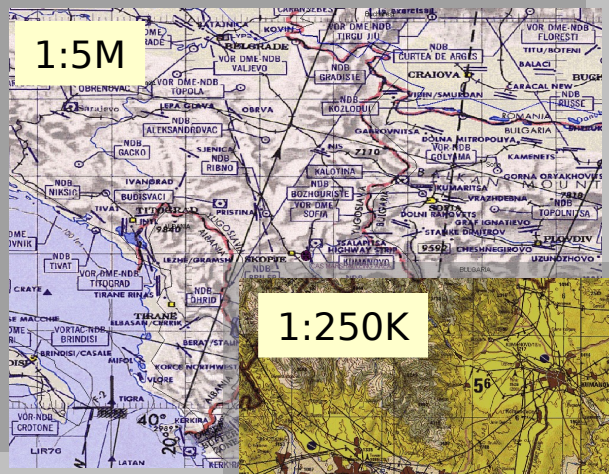


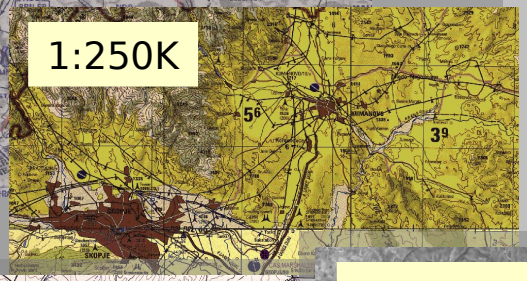
BCS3 Install CDs

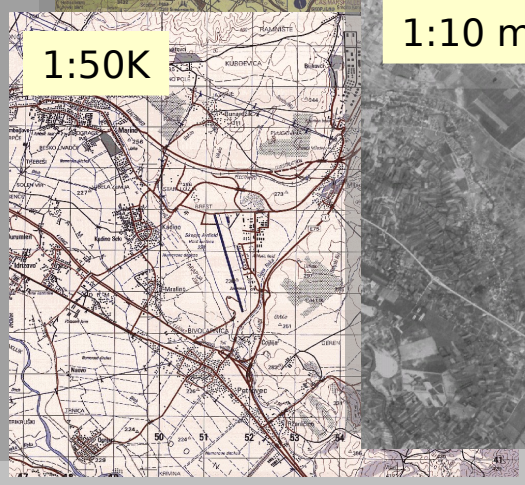


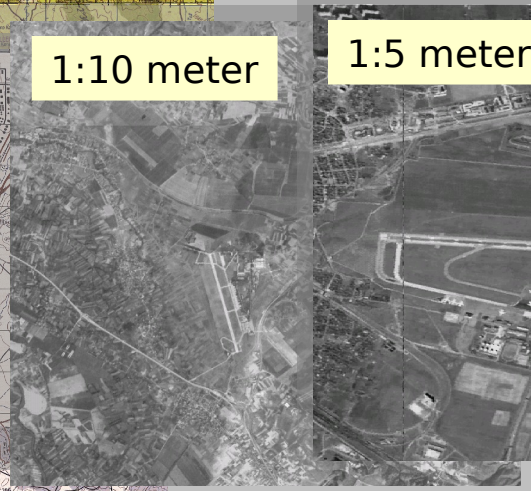
Window 2000 CDs

BCS3 Mapping Capabilites









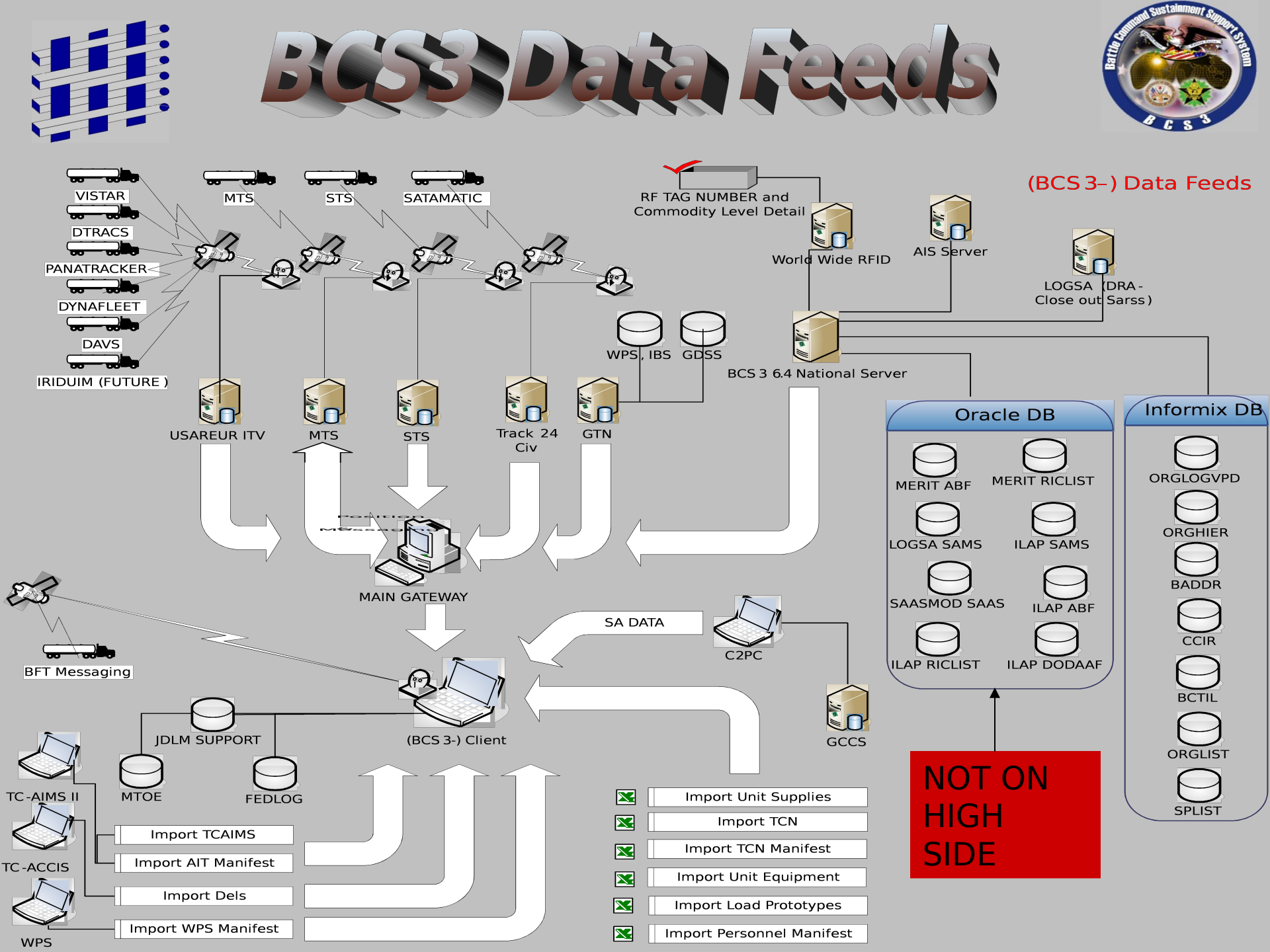
National Geospatial- Intelligence Agency

- Compressed ARC Digitized Raster Graphics (CADRG)
  - 1:5M meter to 1:50K meter scale
- Controlled Imagery Based (CIB)
  - 1:10 Meter to 1:1M Satellite Imagery
- Digital Terrain Elevation Data (DTED)
- Digital Vector Map – World View

Note
1:1M images are Secret NOFORN

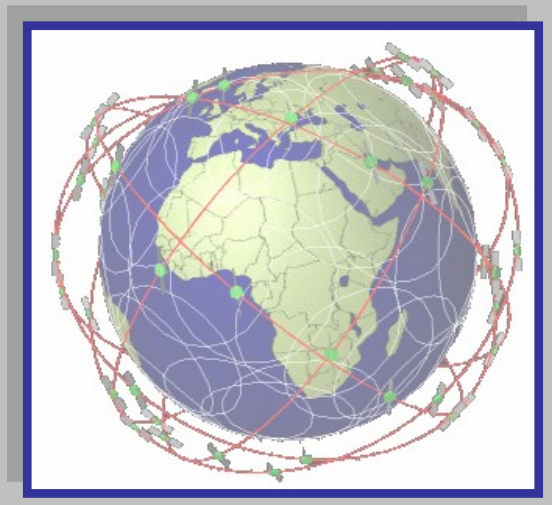
Increased interoperability through Standard NGA

BCS3 Data Feeds



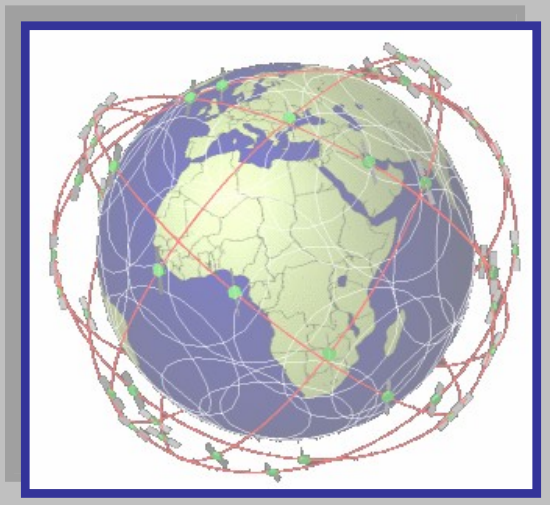
TRACKING SYSTEMS

- **MTS** – Movement Tracking System
  - Non-filterable
  - 2 Way messaging text only
  - Two main components to the system: a mobile unit which is mounted on a unit's vehicles and a control station
- **DTRACS** - Defense Tracking and Control System
  - 2 Way messaging using 18+ Macro Messages
  - Easily filtered
  - Has capability to Load Shipments using Pick-up macro
  - Two main components to the system: a mobile unit which is mounted on a unit's vehicles and a control station
- **DynaFleet** – Volvo Commercial System (**KFOR and SFOR**)
  - Has capability to Load Shipments by listing RF Tag in location message
- **PanaTracker** – Commercial System (easily installed)
  - No messaging
  - Primarily used for Rail, Bus Shipments
- **VISSTAR** – Commercial System (easily installed)
  - No messaging
  - Primarily used for
    - Rail
    - Bus
    - Convoy
    - SSA Location

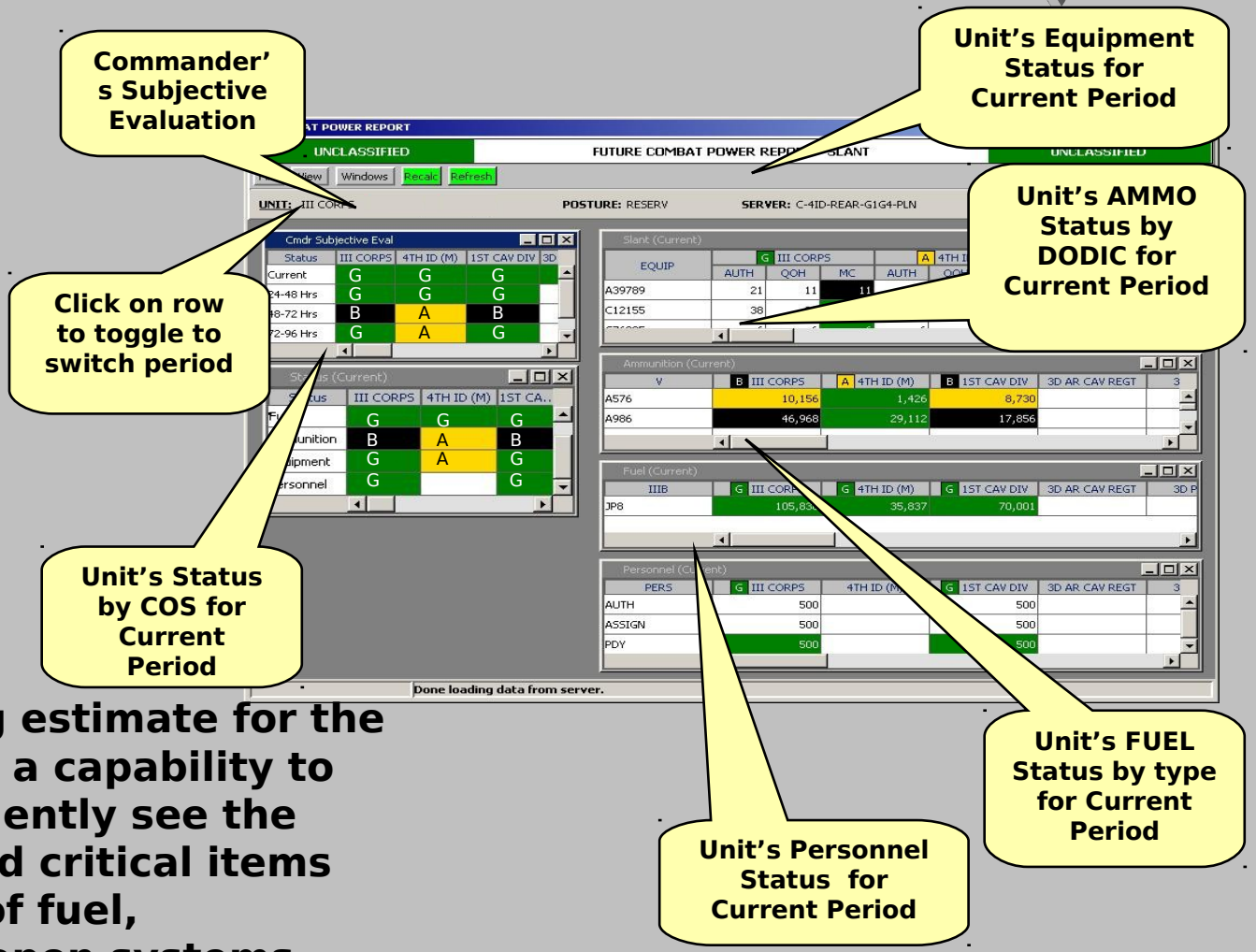


Tracking Systems

- **Satamatics-**
  - Civilian GPS Tracking system
  - Has a panic alert function
  - Two way text messaging capability
- **Iridium-**
  - GPS Tracking capability
  - Capable of storing data
  - Capable of sending small amounts of data via satellite uplink
- **AXTracker-**
  - GPS Tracking capability using Iridium technology
  - Serial ports used to upload TCN Data
  - Runs off of battery (3-7 year battery life)



Running Estimate (Current & Future Combat Power)



Running Estimate

- **Provides running estimate for the commander with a capability to quickly and efficiently see the status of selected critical items**
- **Displays status of fuel, ammunition, weapon systems and personnel**
- **Allows the commander to logistically weigh the fight**

Capabilities

• **BCS3 has five functional features that you must understand to fully appreciate the capabilities that the system brings to the fight. The overview that follows will briefly acquaint you with these key features. Later descriptions will provide you with the details of how the process works, and subsequently how to incorporate this functionality into your daily planning, readiness reporting, and decision making process.**

• **Current Combat Power: BCS3 provides the maneuver commander the capability to access his current combat power. This running estimate provides the status of fuel (CL III (B)), ammunition, weapons platforms/equipment, and personnel.**

• **Future Combat Power: BCS3 provides the maneuver commander the capability to predict future combat power displayed in 24-hour increments up to 96 hours for the current Unit Task Organization (UTO). BCS3 displays an estimated status of fuel, ammunition, weapons platforms/equipment and personnel.**

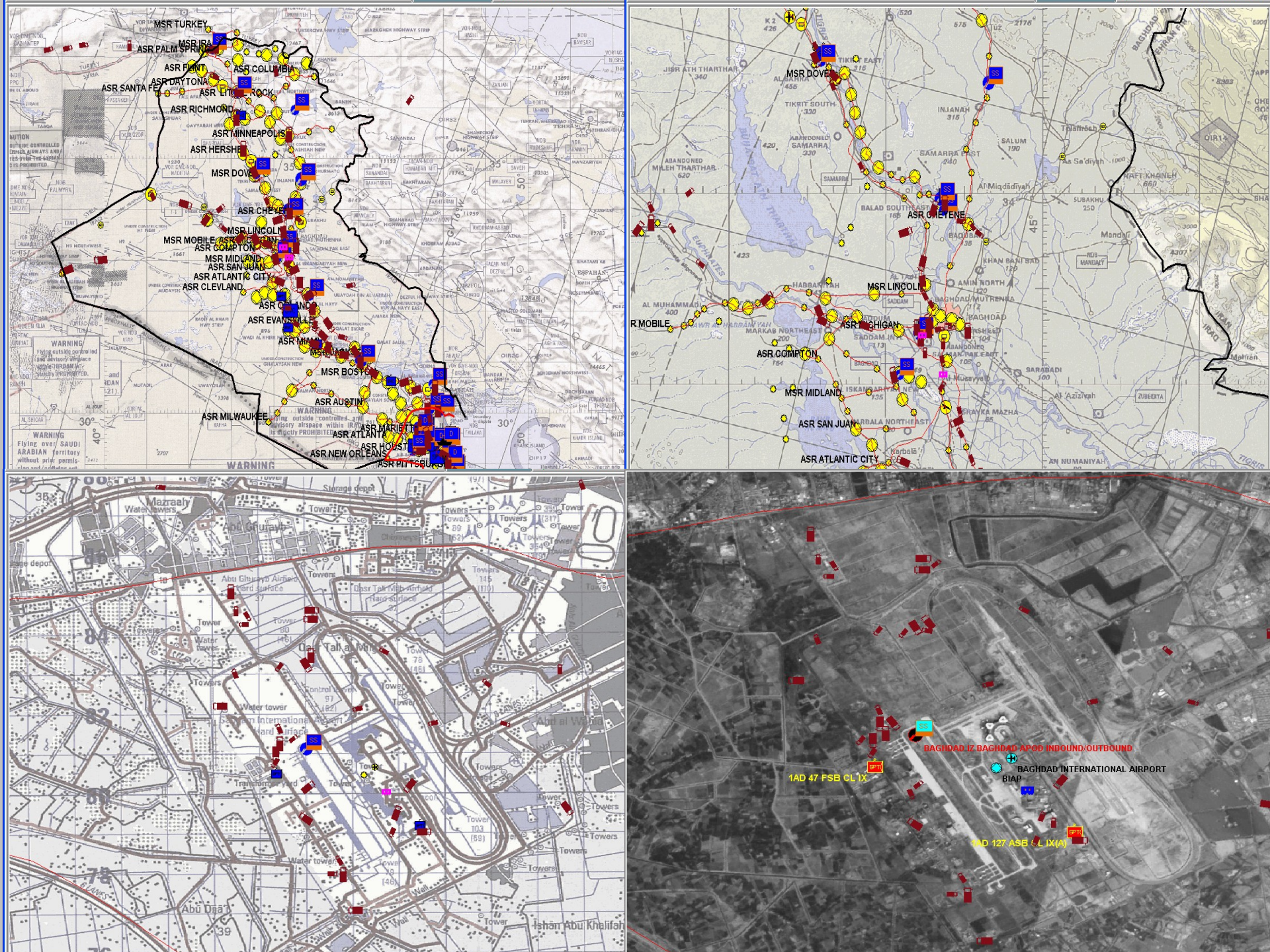
• **CCIR Tracking with Alerts: BCS3 provides the commander with relevant sustainment information and allows him to select the Commander's Critical Information Requirements (CCIR) through orders established in the MCS. Critical logistics indicators can be pre-set to automatically alert commanders when they fall below prescribed levels.**

Capabilities (cont'd)

The user can set up an exception report so BCS3 depicts the mission capable status of weapons platforms, personnel and equipment. The CCIR alert is a visual and/or audio cue that prompts the user that the parameter has been exceeded.

• Course of Action Analysis: This tool allows the commander to do his logistics prep of the battlefield by allowing him to do a map and route RECON for his planned operation. He can immediately see the status of units by commodity and access the scheme of maneuver graphics. Likewise, he can obtain the COA being proposed and the UTO that is being considered. As in future combat power, consumption factors for each COA considered are based on planning factors provided by the Total Army Analysis process. The BCS3 COA tool supports the elements of the Military Decision Making Process (MDMP).

• Asset Visibility/Distribution Management /ITV (TAV): This tool provides the commander with enhanced distribution management, to include In-Transit Visibility, Asset Visibility, and Transportation functionality The system provides a map-centric view from the Joint and Strategic Deployment Systems facilitating efficient planning and execution for RSOI, reports of


MSR TURKEY
MSR IRA
ASR PALM SPRING
ASR FLINT
ASR COLUMBIA
ASR DAYTONA
ASR SANTA FE
ASR LITTLE ROCK
ASR RICHMOND
ASR MINNEAPOLIS
ASR HERSHE
MSR DOVE
ASR CHEYE
MSR LINCOLN
MSR MOBILE
ASR COMPTON
MSR MIDLAND
ASR SAN JUAN
ASR ATLANTIC CITY
ASR CLEVLAND
ASR EVANSVILLE
MSR BOSTON
ASR AUSTIN
ASR MILWAUKEE
ASR MARIETTA
ASR ATLANTA
ASR HOUSTON
ASR NEW ORLEANS
ASR PITTSBURGH
MSR DOVE
ASR CHEYENE
MSR LINCOLN
R MOBILE
ASR COMPTON
MSR MIDLAND
ASR SAN JUAN
ASR ATLANTIC CITY
BAGHDAD IZ BAGHDAD APOD INBOUND/OUTBOUND
BAGHDAD INTERNATIONAL AIRPORT
BIAP
1AD 47 FSB CL IX
1AD 127 ASB CL IX(A)